

PATENT
2925-0495P

2
6-26-01

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: GONZALEZ et al.
Appl. No.: NEW APPLICATION Group: Unassigned
Filed: April 19, 2001 Examiner: UNASSIGNED
For: A METHOD AND APPARATUS FOR MAKING A
CHANNEL ESTIMATE

jc997 U.S. PTO
09/837387
04/19/01

INFORMATION DISCLOSURE STATEMENT
(SUBMISSION CONCURRENT WITH THE
FILING OF A NEW PATENT APPLICATION)

Assistant Commissioner for Patents
Washington, DC 20231

April 19, 2001

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

- ☒ Submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- ☐ This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should be forwarded from the International Search Authority. If copies are needed, please contact the undersigned.

III. CONCISE EXPLANATION OF THE RELEVANCE
(check at least one box)

a. ☒ **DOCUMENTS IN THE ENGLISH LANGUAGE**

The attached patents, publications, or other information in the English language do not require a statement of relevancy.

b. ☐ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

c. ☐ **ENGLISH LANGUAGE SEARCH REPORT**

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

d. ☐ **OTHER**

The following additional information is provided for the Examiner's consideration.

FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

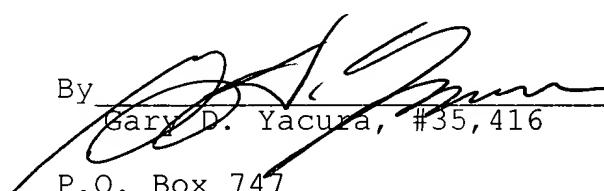
If The Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 12-2325.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 12-2325 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By


Gary D. Yacura, #35,416

P.O. Box 747
Falls Church, VA 22040-0747
(703) 205-8000

GDY/kmr
2925-0495P

Enclosures: ☒ Form PTO-1449(s)
☒ Documents
☐ Foreign Search Report
☐ Fee
☐ Other: _____

(Rev. 01/22/01)

[illegible][illegible]

	A. D'Andrea A. Diglio, U. Mengali, "Symbol-Aided Channel Estimation with Nonselective Rayleigh Fading Channels", IEEE Trans Veh. Technol., Vol. 44, pp. 41-49, Feb. 1995.
	M. Benthin, K.-D. Kammeyer, "Influence of Channel Estimation of the Performance of a Coherent DS-CDMA System", IEEE Trans. Veh. Technol., Vol. 46, pp. 262-268, May 1997.
	S. Min, K.B. Lee, "Pilot and Traffice Based Channel Estimation for DS/CDMA Systems", Electron. Lett., Vol. 34, No. 11, pp. 1073-1074, 1998.

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Form PTO-1449

ATTY DOCKET NO.
2925-0495P

APPLICATION NO.	NEW APPLN.
-----------------	------------

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

APPLICANT
GONZALEZ ET AL.

FILING DATE
April 19, 2001

GROUP	Unassigned
-------	------------

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS

OTHER DOCUMENTS (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.

	F. Ling, "Pilot Assisted Coherent DS-CDMA Reverse-Link Communications with Optimal Robust Channel Estimation", Proc. IEEE ICASSP '97, pp. 263-266, Apr. 1997.
	P. Schramm, "Analysis and Optimization of Pilot-Channel-Assisted BPSK for DS-CDMA Systems", IEEE Trans. Comm., Vol. 46, pp. 1122-1124, Sept. 1998.
	T.M. Schmidl, "The Use of Iterative Channel Estimation (ICE) to Improve Link Margin in Wideband CDMA Systems", Proc. IEEE VTC '99, pp. 1307-1311, May 1999.

EXAMINER

DATE	CONSIDERED
------	------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449

ATTY DOCKET NO.
2925-0495P

APPLICATION NO.
NEW APPLN.

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

APPLICANT
GONZALEZ ET AL.

FILING DATE
April 19, 2001

GROUP	Unassigned
-------	------------

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS

OTHER DOCUMENTS (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.

		J.K. Cavers, "An Analysis of Pilot Symbol Assisted Modulation for Rayleigh Fading Channels", IEEE Trans. Veh. Technol., Vol. 40, pp. 686-693, Nov. 1991.
		M. Sawahashi, H. Andoh, K. Higuchi, "DS-CDMA Pilot and Data Symbol-Assisted Coherent Multistage Interference Canceller Using Repeatedly Updated Channel Estimation", Proc. IEEE ICCS/ISPACS '96, pp. 585-589, Nov. 1996.
		T. A. Summers, S.G. Wilson, "SNR Mismatch and Online Estimation in Turbo Decoding", IEEE Trans. Comm. Vol. 46, pp. 421-423, Apr. 1998.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449	ATTY DOCKET NO. 2925-0495P	APPLICATION NO. NEW APPLN.
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	APPLICANT GONZALEZ ET AL.	
	FILING DATE April 19, 2001	GROUP Unassigned

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS

OTHER DOCUMENTS (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.

		S. Chen, Y. Wu, "Maximum Likelihood Joint Channel and Data Estimation Using Genetic Algorithms", IEEE Trans. Sig. Proc., Vol. 46, pp. 1469-1473, May 1998.
		H. Kong, E. Shwedyk, "On Channel Estimation and Sequence Detection of Interleaved Coded Signals over Frequency-Selective Nonselective Rayleigh Fading Channels", IEEE Trans. Veh. Technol., Vol. 47, pp. 558-556, May 1998.

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.